

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) : Kingsman et al.
Serial No. : Not Yet Assigned
Continuation-in-part of 09/915,169
For : RETROVIRAL VECTORS
Filed : Herewith
Examiner : TBA
Art Unit : TBA

745 Fifth Avenue,
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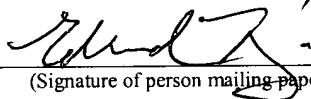
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INFORMATION DISCLOSURE STATEMENT

Mail Stop Patent Application
Commissioner for Patents
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Dear Sir:

The Examiner's attention is invited to the documents that are set forth in the accompanying form PTO-1449, enclosed in duplicate. Since these documents were forwarded to or cited by the Examiner in the predecessor applications (U.S. application Serial No. 09/915,169, filed on July 25, 2001, and U.S. application Serial No. 09/224,014, filed on December 28, 1998), a copy of each document should be in the predecessor application files. Accordingly, no additional copy is being forwarded with this Information Disclosure Statement.

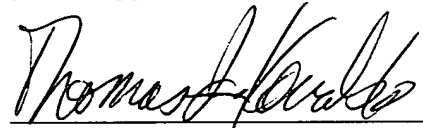
cited documents are indeed prior art. The Examiner is invited to undertake an independent search.

Applicants respectfully request that the Examiner consider and make of record the documents cited herein and that a copy of the Form PTO-1449, initialed by the Examiner be returned to the undersigned.

Respectfully submitted,

FROMMER LAWRENCE & HAUG LLP
Attorneys for Applicants

By:

A handwritten signature in cursive script, appearing to read "Thomas J. Kowalski", written over a horizontal line.

Thomas J. Kowalski
Reg. No. 32,147
Phone (212) 588-0800

Based on Form PTO-1449 (3/90) LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)				ATTY. DOCKET NO. 674523-2005.2		SERIAL NO. TBA	
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	6326007	12/4/01	Yilma			
	AB	5994136	11/30/99	Naldini			
	AC	6165782	12/26/00	Naldini			
	AD	6013516	1/11/00	Verma			
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	AE	0611822	8/94	Europe			
	AF	0759471	2/97	Europe			
	AG	WO 91/197998	12/91	WIPO			
	AH	WO 92/21750	12/92	WIPO			
	AI	WO 97/14809	4/97	WIPO			
	AJ	WO 97/12622	4/97	WIPO			
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AK	Kestler et al, "Importance of the nef Gene for Maintenance of High Virus Loads and for Development of AIDS", Cell 65:651-662 (1991)					
	AL	Blomer et al., "Highly Efficient and Sustained Gene Transfer in Adult Neurons with a Lentivirus Vector", Journal of Virology 97, 1997, p.6641-6649.					
	AM	Blomer et al., "Applications of gene therapy to the CNS", Human Molecular Genetics 5, 1996, p. 1397-1404.					
	AN	Clever et al., RNA Secondary Structure and Binding Sites for gag Gene Products in the 5' Packaging Signal of Human Immunodeficiency Virus Type 1, Journal of Virology 69, 1995, p. 2101-2109.					
	AO	Clever et al., "Mutant Human Immunodeficiency Virus Type 1 Genomes with Defects in RNA Dimerization or Encapsidation", Journal of Virology 71, 1997, p.3407-3414.					
	AP	John M. Coffin, "Retroviridae: The Viruses and Their Replication", Fields of Virology 3, 1996, p. 1767-1996.					
	AQ	Fuller et al., "Vesicular Stomatitis Virus Infects and Matures Only through the Basolateral Surface of the Polarized Epithelial Cell Line, MDCK", Cell 38, 1984, p. 65-77, p. 65-77.					
	AR	Harrison et al., "Inhibition of HIV Production in Cells Containing an Integrated, HIV-Regulated Diphtheria Toxin A Chain Gene", Aids Research and Human Retroviruses 8, 1992, p. 39-45.					
	AS	Hayashi et al., "RNA Packaging Signal of Human Immunodeficiency Virus Type 1", Virology 188, 1992, p. 590-599.					
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	AT	6,312,682	11/2001	Kingsman			
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	AX	WO97/14809	4/24/97	WIPO			
	AY	EP 0 213 894	8/21/86	Europe			
	AZ						
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	BA	Kim et al., "Minimal Requirement for a Lentivirus Vector Based on Human Immunodeficiency Virus Type 1", Journal of Virology 72, 1998, p. 811-816.					
	BB	Kim et al., "Temporal Aspects of DNA and RNA Synthesis during Human Immunodeficiency Virus Infection: Evidence for Differential Gene Expression", Journal of Virology 63, 1989, p. 3708-3713.					
	BC	Mann et al., "Construction of a Retrovirus Packaging Mutant and Its Use to Produce Helper Free Defective Retroviruses", Cell, vol. 33, 1983, p. 153-159.					
	BD	Martarano et al., "Equine Infectious Anemia Virus trans-Regulatory Protein Rev Controls Viral mRNA Stability, Accumulation, and Alternative Splicing", Journal of Virology 68, 1994, p. 3102-3111.					
	BE	Payne et al., "Characterization of infectious molecular clones of equine infectious anaemia virus", Journal of General Virology 75, 1994, p. 425-429.					
	BF	Yee et al., "A general method for the generation of high-titer, pantropic retroviral vectors: Highly efficient infection of primary hepatocytes", Proc. Natl. Acad. Sci. USA 91, 1994, p. 9564-9568.					
	BG	Carroll et al., "E. coli beta-Glucuronidase (GUS) as a Marker for Recombinant Vaccinia Viruses", BioTechniques 19, 1995, p. 352-354.					
	BH	Carroll et al., "Host Range and Cytopathogenicity of the Highly Attenuated MVA Strain of Vaccinia Virus: Propagation and Generation of Recombinant Viruses in a Nonhuman Mammalian Cell Line", Virology 238, 1997, p. 198-211.					
	BI	Chakrabarti et al., "Vaccinia Viruse expression Vector: Coexpression of beta-Galactosidase Provides Visual Screening of Recombinant Virus Plaques", Molecular and Cellular Biology, 5, 1985, p. 3403-3409.					
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	BT	Chakrabarti et al., "Compact, Synthetic, Vaccinia Virus Early/Late Promoter for Protein Expression", BioTechniques 23, 1997, p. 1094-1097.					
	BU	Davison et al., "Structure of Vaccinia Virus Early Promoters", J. Mol. Biol. 210, 1989, p. 749-769.					
	BV	Davison et al. "Structure of Vaccinia Virus Late Promoters", J. Mol. Biol. 210, 1980, p. 771-784.					
	BW	Earl et al., "Preparation of Cell Cultures and Vaccinia Virus Stocks", Current Protocols in Molecular Biology 1998, Suppl. 43 Unit 16.16.					
	BX	Earl et al., "Generation of Recombinant Vaccinia Viruses", Current Protocols in Molecular Biology 1998, Suppl. 43 Unit 16.17.					
	BY	Flexner et al. "Prevention of vaccinia virus infection in immunodeficient mice by vector-directed IL-2 expression", Nature 330, 1987, p 259-262.					
	BZ	Holzer et al., "Construction of a Vaccinia Virus Deficient in the Essential DNA Repair Enzyme Uracil DNA Glycosylase by a Complementing Cell Line", Journal of Virology 71, 1997, p. 4997-5002.					
	CA	Mackett et al., "Vaccinia virus: A selectable eukaryotic cloning and expression vector", Proc. Natl. Acad. Sci. USA 79, 1982, p. 7415-7419.					
	CB	Mahnel et al., "Erfahrungen bei der Schutzimpfung gegen Orthopocken von Mensch und Tier mit dem Impstamm MVA", English translation, Berl. und Munchener Tierarztl. Wochenschrift 107, 1994, p. 253-256.					
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	CM	Mayr et al., "The Smallpox Vaccination Strain MVA: Marker, Genetic Structure, Experience Gained with the Parenteral Vaccination and Behavior in Organisms with a Debilitated Defence Mechanism", Zentralbl. Bakteriologie, 1978, p. 375-390 (English Abstract).					
	CN	Meyer et al., "Mapping of deletions in the genome of the highly attenuated vaccinia virus MVA and their influence on virulence", Journal of General Virology 72, 1991, p. 1031-1038.					
	CO	Bernard Moss, "Poxviridae: The Viruses and Their Replication", Fields Virology 3, 1996, p. 2637-2672.					
	CP	Moss et al., "Host Range Restricted Non-Replicating Vaccinia Virus Vectors as Vaccine Candidates", Adv Exp Med Biol 367, 1996, p. 7-13.					
	CQ	Panicali et al., "Construction of poxviruses as cloning vectors: Insertion of the thymidine kinase gene from herpes simplex virus into the DNA of infectious vaccinia virus", Proc. Natl. Acad. Sci. USA, 79, 1982, p. 4927-4931.					
	CR	Soneoka et al., "A transient three-plasmid expression system for the production of high titer retroviral vectors", Nucleic Acids Research, vol. 23, 1995, p. 628-633.					
	CS	Sutter et al., "Nonreplicating vaccinia vector efficiently expresses recombinant genes", Proc. Natl. Acad. Sci. USA, 1992, p. 10847-10851.					
	CT	Taylor et al., "Nonreplicating Viral Vectors as Potential Vaccines: Recombinant Canarypox Virus Expressing Measles Virus Fusion (F) and Hemagglutinin (HA) Glycoproteins", Virology 187, 1992, p. 321-328.					
	CU	Paoletti et al., "Safe and Effective Poxvirus Vectors-NYVAC and ALVAC", Dev Biol Stand 82, 1994, p 65-69.					
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DE	Wyatt et al., "Replication-Deficient Vaccinia Virus Encoding Bacteriophage T7 RNA Polymerase for Transient Gene Expression in Mammalian Cells", Virology 210, 1995, p 202-205.
DF	Wyatt et al., "Marker Rescue of the Host Range Restriction Defects of Modified Vaccinia Virus Ankara", Virology 251, 1998, p 334-342.
DG	Wyatt et al., "Development of a replicaiton-deficient recombinant vaccinia virus vaccine effective against parainfluenza virus 3 infection in an animal model", Vaccine 14, 1996, p. 1451-1458.
DH	W. French Anderson. Human gene therapy. Nature. vol. 392, pp. 25-30, 1998.
DI	Verma et al. Gene therapy-promises, problems and prospects. Nature. vol. 389, pp. 239-242. 1997.*
DJ	L. Naldini et al., "In vivo Gene Delivery and Stable Transduction of Nondividing cells by a Lentiviral Vector", Science, vol. 272, Apr. 12, 1996, pp. 263-267, XP000583652.
DK	Zufferey et al., "Multiply attenuated lentiviral vector achieves efficient gene delivery in vivo", Nature Biotechnology vol. 15, Sep. 1997, pp. 871-875, XP-002056816.
DL	Akkina et al. "High-Efficiency Gene Transfer into CD34.sup.+ Cells with a Human Immunodeficiency Virus Type 1-Based Retroviral Vector Pseudotyped with Vesicular Stomatitis Virus Envelope Glycoprotein G", Journal of Virology, Apr. 1996, pp. 2581-2585.
DM	Barillari et al., "The Tat protein of human immunodeficiency virus type 1, a growth factor for AIDS Kaposi sarcoma and cytokine-activated vascular cells, induces adhesion of the same cell types by using integrin receptors recognizing the RGD amino sequence", Proc. Natl. Acad. Sci. USA, vol. 90, Sep. 1993, pp. 7941-7945.

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	DX	Buchsacher, Jr. et al., "Human Immunodeficiency Virus Vectors for Inducible Expression of Foreign Genes", Journal of Virology, May 1992, pp. 2731-2739.					
	DY	Bukrinsky et al., "A nuclear localization signal within HIV-1 matrix protein that governs infection of non-dividing cells", Nature, vol. 365, Oct. 14, 1993, pp. 666-669.					
	DZ	Cannon et al., "Murine Leukemia Virus-Based Tat-Inducible Long Terminal Repeat Replacement Vectors: a New System for Anti-Human Immunodeficiency Virus Gene Therapy", Journal of Virology, Nov. 1996, pp. 8234-8240.					
	EA	Chen et al., "High-Efficiency Transformation of Mammalian Cells by Plasmid DNA", Molecular and Cellular Biology, Aug. 1987, p. 2745-2752.					
	EB	Echetebe et al., "Construction and Characterization of a Potent HIV-2 Tat Transdominant Mutant Protein", Journal of Acquired Immune Deficiency Syndromes, 1994 Raven Press, Ltd., New York, pp. 655-664.					
	EC	Ensoli et al., "Tat protein of HIV-1 stimulates growth of cells derived from Kaposi's sarcoma lesions of AIDS patients", Nature, vol. 345, May 3, 1990, pp. 84-87.					
	ED	Gallay et al., "Role of the Karyopherin Pathway in Human Immunodeficiency Virus Type 1 Nuclear Import", Journal of Virology, Feb. 1996, pp. 1027-1032.					
	EE	Heinzinger et al., "The Vpr protein of human immunodeficiency virus type 1 influences nuclear localization of viral nucleic acids in nondividing host cells", Proc. Natl. Acad. Sci. USA, vol. 91, Jul. 1994, pp. 7311-7315.					
	EF	Joag et al., "Lentiviruses", Fields Virology, Third Edition, 1996, chapter 62, pp. 1977-1996.					
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	EQ	Jowett et al., "The Human Immunodeficiency Virus Type 1 vpr Gene Arrests Infected T Cells in the G.sub.2 + M Phase of the Cell Cycle", Journal of Virology, Oct. 1995, pp. 6304-6313.					
	ER	Sunnyoung Kim et al., "Temporal Aspects of DNA and RNA Synthesis during Human Immunodeficiency Virus Infection: Evidence for Differential Gene Expression", Journal of Virology, Sep. 1989, pp. 3708-3713.					
	ES	Lever et al., "Identification of a Sequence Required for Efficient Packaging of Human Immunodeficiency Virus Type 1 RNA into Virions", Journal of Virology, Sep. 1989, pp. 4085-4087.					
	ET	Levy et al., "Induction of Cell Differentiation by Human Immunodeficiency Virus 1 vpr", Cell, vol. 72, Feb. 26, 1993 pp. 541-550.					
	EU	Cell, vol. 72, Feb. 26, 1993 pp. 1245-1252.					
	EV	Levy et al., "Extracellular Vpr Protein Increases Cellular Permissiveness to Human Immunodeficiency Virus Replication and Reactivates Virus from Latency", Journal of Virology, vol. 69, Feb. 1995, pp. 1243-1252.					
	EW	Liszewicz et al., "Inhibition of human immunodeficiency virus type 1 replication by regulated expression of a polymeric Tat activation response RNA decoy as a strategy for gene therapy in AIDS", Proc. Natl. Acad. Sci. USA, vol. 90, Sep. 1993, pp. 8000-8004.					
	EX	Mahalingham et al., "Functional Analysis of HIV-1 Vpr: Identification of Determinants Essential for Subcellular Localization", Virology 212, 1995, pp. 331-339.					
	EY	Naldini et al., "In Vivo Gene Delivery and Stable Transduction of Nondividing Cells by a Lentiviral Vector", Science, vol. 272, Apr. 12, 1996, pp. 263-267.					
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	FJ	Naldini et al., Efficient transfer, integration, and sustained long-term expression of the transgene in adult rat brains injected with a lentiviral vector, Proc. Natl. Acad. Sci. USA, vol. 93, Oct. 1996, pp. 11382-11388.					
	FK	Page et al., "Construction and Use of a Human Immunodeficiency Virus Vectro for Analysis of Virus Infectivitiy", Journal of Virology, vol. 64, No. 1, Nov. 1990, pp. 5270-5276.					
	FL	Poznansky et al., "Gene Transfer into Human Lymphocytes by a Defective Human Immunodeficiency Virus Type 1 Vector", Journal of Virology, vol. 65, No. 1, Jan. 1991, pp. 531-536.					
	FM	Richardson et al., "Helper virus free transfer of human immunodeficiency virus type 1 vectors", Journal of General Virology, vol. 76, 1995, pp. 691-696.					
	FN	Ross et al., "Gene Therapy in the United States: A Five-Year Status Report", Human Gene Therapy 7, vol. 77, Sep. 10, 1996, pp. 1781-1790.					
	FO	Shimada et al., "Targeted and Highly Efficient Gene Transfer into CD4.sup.+ Cells by a Recombinant Human Immunodeficiency Virus Retroviral Vector", The Journal of Clinical Investigation, Inc., vol. 88, Sep. 1991, 1043-1047.					
	FP	Tomonaga et al., "Molecular biology of the feline immunodeficiency virus auxiliary genes", Journal of General Virology, 1996, pp. 1611-1621.					
	FQ	Fred Hutchinson Cancer Research, "Passage through Mitosis Is Required for Oncoretroviruses but Not for the Human Immunodeficiency Virus", Journal of Virology, vol. 68, No. 1, Jan. 1994, pp. 510-516.					
	FR	Buchsachacher et al., "Human Immunodeficiency Virus Vectors for Inducible Expression of Foreign Genes", Journal of Virology, vol. 66, No. 5, May 1992, pp. 2731-2739.					
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	GC	Naldini et al., "In Vivo Gene Delivery and Stable Transduction of Nondividing Cells by a Lentiviral Vector", Science, vol. 272, Apr. 12, 1996.					
	GD	R G Vile et al., "Retroviruses as vectors", British Medical Bulletin, 1995, vol. 51, pp. 12-30.					
	GE	Bowtell et al., "Comparison of Expression in Hemopoietic Cells by Retroviral Vectors Carrying Two Genes", Journal of Virology, Jul. 1988, pp. 2464-2473.					
	GF	Correll et al., "Retroviral Vector Design for Long-Term Expression in Murine Hematopoietic Cells In Vivo", Blood, vol. 84, No. 6, Sep. 15, 1994, pp. 1812-1822.					
	GH	Emerman et al., "Genes with Promoters in Retrovirus Vectors Can Be Independently Suppressed by an Epigenetic Mechanism", Cell, vol. 39, Dec. 1984, pp. 458-467.					
	GI	Ghattas et al., "The Encephalomyocarditis Virus Internal Ribosome Entry Site Allows Efficient Coexpression of Two Genes from a Recombinant Provirus in Cultured Cells and in Embryos", Molecular and Cellular Biology, Dec. 1991, pp. 5848-5859.					
	GJ	Hantzopoulos et al., "Improved gene expression upon transfer of the adenosine deaminase minigene outside the transcriptional unit of a retroviral vector", Proc. Natl. Acad. Sci. USA, vol. 86, May 1989, pp. 3519-3523.					
	GK	Hatzoglou et al., "Hormonal Control of Interacting Promoters Introduced into Cells by Retroviruses", The Journal of Biological Chemistry, vol. 266, issue of May 5, 1991, pp. 6416-6425.					
	GL	Hatzoglou et al., "Hormonal Regulation of Chimeric Genes Containing the Phosphoenolpyruvate Carboxykinase Promoter Regulatory Region in Hepatoma Cells Infected by Murine Retroviruses", The Journal of Biological Chemistry, vol. 268, No. 33, Nov. 26, 1988, pp. 17798-17808.					
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	GW	Hantzopoulos et al., "Comparison of the Expression of a Mutant Dihydrofolate Reductase under Control of Different Internal Promoters in Retroviral Vectors", <i>Human Gene Therapy</i> , 1992, pp. 381-390.					
	GX	McLachlin et al., "Factors Affecting Retroviral Vector Function and Structural Integrity", <i>Virology</i> 195, 1993, pp. 1-5.					
	GY	Overall et al., "Stably Transmitted Triple-Promoter Retroviral Vectors and Their Use in Transformation of Primary Mammalian Cells", <i>Molecular and Cellular Biology</i> , Apr. 1988, pp. 1803-1808.					
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	HA	Vile et al., "A comparison of the properties of different retroviral vectors containing containing the murine tyrosinase promoter to achieve transcriptionally targeted expression of the HSVtk or IL-2 genes", <i>Gene Therapy</i> , 1994, pp. 307-316.					
	HB	Lixu et al., "Factors Affecting Long-Term Stability of Moloney Murine Leukemia Virus-Based Vectors", <i>Virology</i> vol. 171, 1989, pp. 331-341.					
	HC	Jiing-Kuan Yee et al., "Gene expression from transcriptionally disabled retroviral vectors", <i>Proc. Natl. Acad. Sci. USA</i> , vol. 84, Aug. 1987, pp. 5197-5201.					
	HD	Bryan R. Cullen, "Regulation of HIV gene expression", <i>AIDS</i> . vol. 6 1995, pp. S19-S32.					
	HE	Ngo et al., in <i>The Protein Folding problem and tertiary Structure prediction</i> , merz et al., 9ed.), Birkhauser, Boston, MA pp. 492-495, 1994					
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	HQ	Tabernero et al. "The Posttranscriptional Control Element of the Simian Retrovirus Type 1 Forms an Extensive RNA Secondary Structure Necessary for Its Function" Journal of Virology, Sept 1996, pgs 5998-6011.					
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